

Title (en)

Slant plate type compressor with variable capacity control mechanism.

Title (de)

Schiefscheibenverdichter mit Vorrichtung zur Hubregelung.

Title (fr)

Compresseur à plateau en biais avec mécanisme de contrôle de capacité.

Publication

EP 0486257 A1 19920520 (EN)

Application

EP 91310424 A 19911112

Priority

- JP 30881590 A 19901116
- SG 158194 A 19941027

Abstract (en)

A slant plate type compressor (10) having a capacity or displacement adjusting mechanism includes a housing (20) for a cylinder block (21) provided with a plurality of cylinders (70) and a crank chair (22). A piston (71) is slidably fitted within each of the cylinders (70) and is reciprocated by a drive mechanism which includes a slant plate (60) having a surface with an adjustable incline angle. The incline angle of the slant plate (60), and thus the capacity of the compressor, is controlled according to the pressure differential between the crank chamber (22) and a suction chamber (241). The pressure in either the crank chamber (22) or the suction chamber (241) is controlled by an externally controlled valve mechanism (400) which is disposed in a passageway linking the crank chamber (22) and the suction chamber (241). An internally controlled safety valve device (485) prevents an abnormal pressure differential between the crank (22) and suction (241) chambers. The internally controlled safety valve device (485) is provided within the externally controlled valve mechanism (400) thereby obtaining an easily manufactured slant plate type compressor having a capacity adjusting mechanism with a safety valve device. <IMAGE>

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F04B 1/28

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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